

**EPSON® ELPDC02**  
**High Resolution Document Imager**

*User's Guide*

## Important Safety Information

**WARNING:** Never open any cover on the document camera. Dangerous electrical voltages inside the document camera can severely injure you. Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

**WARNING:** The document camera and its accessories come packaged in plastic bags. Keep plastic bags away from small children to avoid any risk of suffocation.

**Caution:** Never attempt to replace the lamps. Refer all lamp servicing to qualified service personnel.

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# C

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# W

## *Welcome*

The EPSON® ELPDC02 High Resolution Document Imager is a high resolution document camera that can be connected to all types of projectors and display devices. From boardrooms to auditoriums, you can show fine detail in a large variety of presentation materials.

The document camera's upper lamps provide ample lighting for printed material and 3-D objects, while its base lamps offer illumination for overhead transparencies and film negatives.

Your document camera captures images at a resolution of  $1024 \times 768$  pixels with a maximum shooting area of  $13.8 \times 10.2$  in. ( $350 \times 260$  mm). With its 10× zoom capability and true XGA resolution, even 10 point type can be read clearly. And the document camera's support for S-Video and composite video provides additional versatility.

You can connect the document camera to a wide range of computers, including IBM® compatible PCs and laptops, Apple® Macintosh®, Power Macintosh™ series (including G3 and G4 systems), PowerBook® computers, many iMac™ and iBook™ series systems, and high-end workstations such as the Sun® SPARCstation.™ Up to two computers can be connected simultaneously.

## *Getting the Most from Your Document Camera*

Depending on your presentation, you can take advantage of any or all of these options:

- **Connecting to a projector or monitor**  
The document camera requires an output device, such as a projector or monitor, to display its image. To connect the document camera to these devices, see page 11.
- **Connecting to a laptop or other computer**  
You can connect up to two other video output sources, such as a laptop and desktop computer. This is especially useful if your projector has only one video input port. See page 14 for more information.
- **Using the remote control**  
The remote control lets you control the lamps, zoom and focus your image, and switch the display from the camera to a computer. See Chapter 2 for details.

## *Using Your Documentation*

This book contains all the information you need to set up and use your document camera. Please follow these guidelines as you read through it:

- Warnings must be followed carefully to avoid bodily injury.
- Cautions must be observed to avoid damage to your equipment.
- Notes contain important information about your document camera.

## ***Getting More Information***

Need tips on giving presentations? More information about your document camera? Here's where you can look for help:

- <http://www.presentersonline.com>  
Includes a library of articles covering presentation tips, tricks, and technology. The site provides templates, clip art, and sound clips, as well as Presenters Services to use on the road. Even more resources and services are available if you register to join the Presenters Club®—and it's free.
- <http://support.epson.com>  
Download FAQs and e-mail your questions to EPSON support.

If you still need help after checking this *User's Guide* and the sources listed above, you can use the EPSON PrivateLine® Support service to get help fast. Call (800) 637-7661 and enter the PIN on the card included with your document camera. Or take advantage of EPSON's electronic support services 24 hours a day. See page 32 for more information.

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## ***Registration***

To register, simply fill out and return the enclosed registration card.



# 1 *Setting Up the Document Camera*

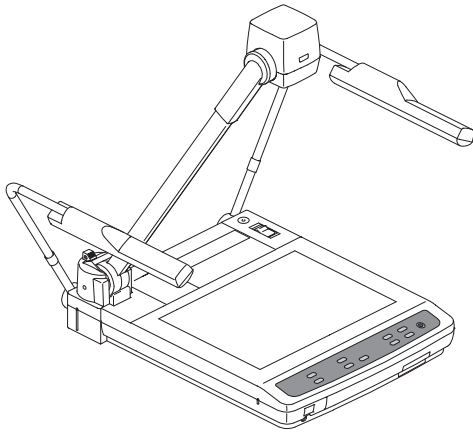
This chapter tells you how to set up the document camera for a video presentation.

You'll find instructions for the following in this chapter:

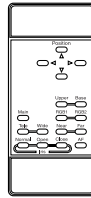
- Unpacking the document camera
- Installing batteries in the remote control
- Unfolding the document camera
- Positioning the document camera
- Connecting to a projector or monitor
- Adjusting the camera head switches
- Connecting to a computer

## *Unpacking the Document Camera*

After unpacking the document camera, make sure you have all the items shown below:



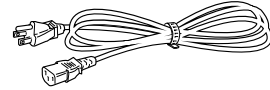
document camera



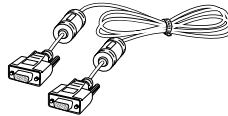
remote control



batteries



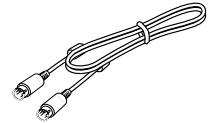
power cord



RGB video cable



RCA cable



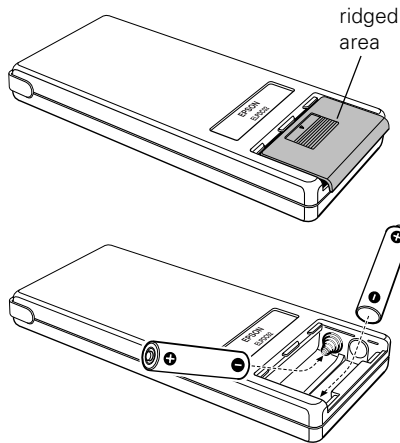
S-Video cable

Save all packaging in case you need to ship the document camera. Always use the original packaging (or the equivalent) when you need to send the document camera to another location. For transportation instructions, see page 28.

## Installing Batteries in the Remote Control

Before using the remote control, you need to install its batteries as described below.

1. Press down on the ridged area and remove the battery compartment cover.
2. Insert two AAA batteries as shown.
3. Replace the battery compartment cover.



### caution

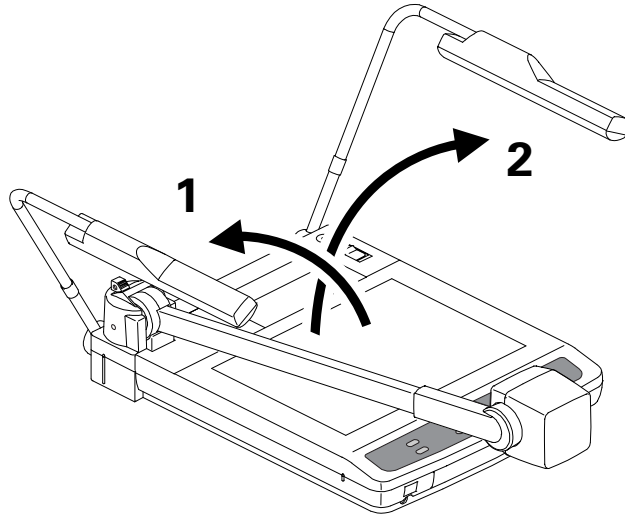
*When replacing batteries, take the following precautions:*

- *Don't mix old and new batteries.*
- *Replace batteries as soon as they run out. If the batteries leak, wipe away battery fluid with a soft cloth. If fluid gets on your hands, wash them immediately.*
- *Don't expose batteries to heat or flame.*
- *Dispose of used batteries according to local regulations.*
- *Remove batteries if you won't be using the document camera for a long period of time.*

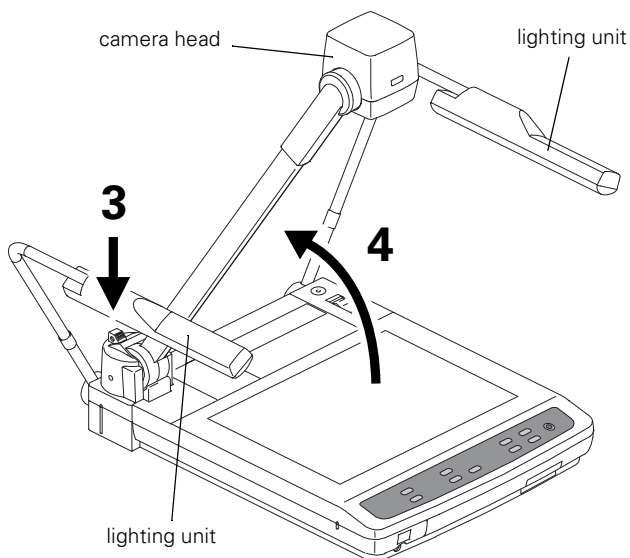
## *Unfolding the Document Camera*

Follow the steps below to unfold the document camera.

1. Unfold the first lighting unit arm (1) and then the second (2) as shown until they stop.



2. Press the camera arm lock release button (3) and raise the camera arm (4) until the button returns to its original position and you hear a click. Make sure the camera arm is securely locked.



3. Rotate the camera head so that the lens faces the stage (downward).
4. Rotate the lighting units so that the lamps face the stage.

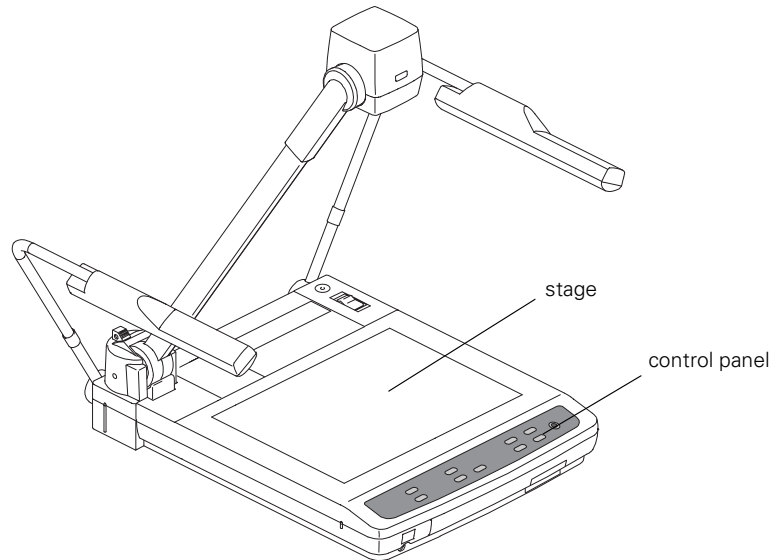
## Positioning the Document Camera

### caution

*Don't hold or lift the document camera by the camera head or lighting unit arms, or you may damage them.*

Before connecting the document camera, you need to decide where to place it. Wherever you place it, be sure to follow these guidelines:

- Place the document camera on a sturdy, level surface.
- Make sure there is plenty of space for ventilation around and under the document camera.
- Make sure the document camera is within 10 feet (3 m) of a grounded electrical outlet or extension cord, and within 5 feet (1.5 m) of your output source.
- Make sure you are within 23 feet (7 m) of the front or back of the document camera to use the remote control.
- With the control panel facing you, place the document camera directly in front of you. Otherwise, items you place on the stage may appear upside-down.



Most presenters find it convenient to place the document camera in front of the audience. This lets the presenter stand in the front of the room, face the audience, and remain close enough to the equipment to be able to control it.

## Connecting to a Projector or Monitor

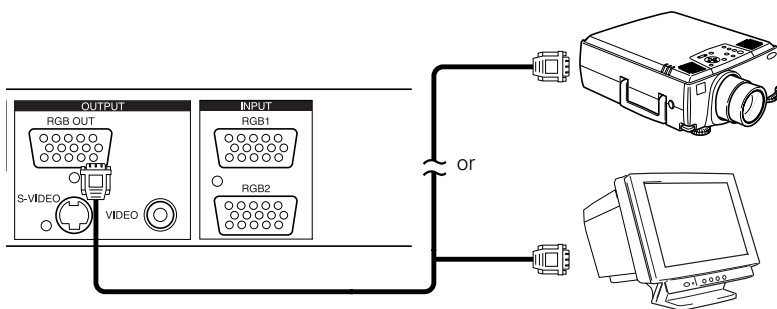
You can connect the document camera to any projector or monitor that has a standard RGB video, composite video, or S-Video input port. EPSON projectors support all three connections. Most computer monitors support only RGB video, while many television monitors support S-Video and composite video.

RGB video provides the highest quality, with true XGA resolution. S-Video offers the next best quality, followed by composite video.

### Connecting the RGB Video Cable

Before you start, make sure your document camera and projector or monitor are turned off.

1. Connect one end of the RGB video cable to the document camera's RGB OUT port.
2. Connect the other end of the RGB video cable to RGB video input port on the projector or monitor.



3. Tighten the screws on the connectors.

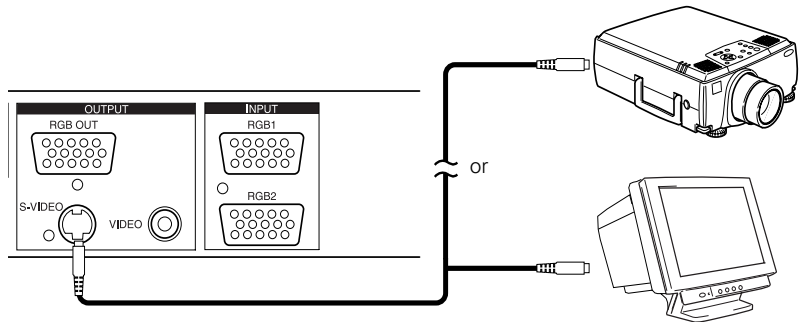
#### **note**

*The RGB video input port on the projector or monitor may be labeled computer, component video, or video in.*

## Connecting the S-Video Cable

Before you start, make sure your document camera and projector or monitor are turned off.

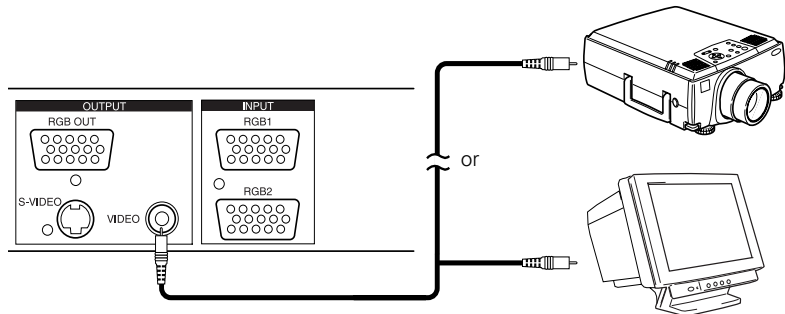
1. Connect one end of the S-Video cable to the document camera's S-VIDEO port.
2. Connect the other end of the S-Video cable to the S-Video input port on the projector or monitor.



## Connecting the RCA Cable

Before you start, make sure your document camera and projector or monitor are turned off.

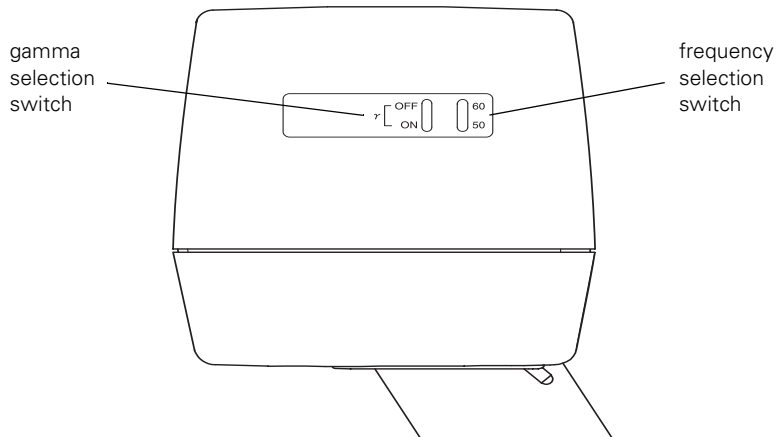
1. Connect one end of the RCA cable to the document camera's VIDEO port.
2. Connect the other end of the RCA cable to the RCA input port on the projector or monitor.



## *Adjusting the Camera Head Switches*

The gamma selection switch adjusts the output color to match the device connected to the **RGB OUT** port. Set the switch to **OFF** when connected to a projector or **ON** when connected to a monitor.

The frequency selection switch is factory set to 60 Hz. In an area where power frequency is 50 Hz, set the switch to **50** to reduce flickering.



## Connecting to a Computer

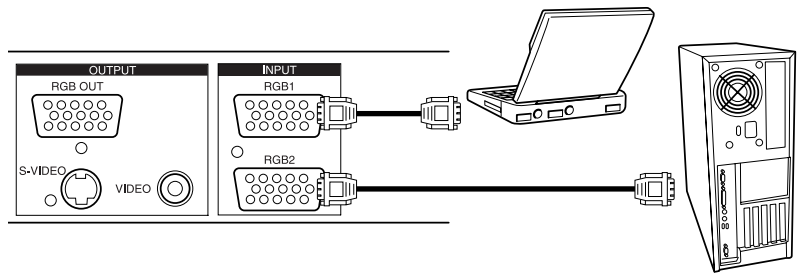
In addition to using the stage for your presentation material, you can connect up to two devices that have RGB video output ports, such as a laptop and desktop computer.

This is especially useful if your projector has only one input port. You can connect the computers to the document camera's RGB input ports as described below, and connect the document camera to the projector's input port as shown on page 11. This way, you can use the camera's control panel or remote control to switch easily between picture sources. Follow the instructions on page 18 to switch between the sources.

### Connecting the RGB Video Cable

Before you start, make sure your document camera and computers are turned off.

1. Connect one end of the RGB video cable to the document camera's RGB1 or RGB2 port.
2. Connect the other end of the RGB video cable to your computer's RGB video output (monitor) port.



3. Tighten the screws on the connectors.

Repeat the steps to connect a second computer.

# 2

## *Using the Document Camera*

Once you have set up the document camera, you're ready to turn it on, adjust the image, and give your presentation. This chapter covers the following:

- Turning on the document camera and other equipment
- Switching between picture sources
- Adjusting the lighting
- Adjusting the image position and size
- Using the camera head as a conventional video camera
- Turning off and storing the document camera

## Turning On Your Equipment

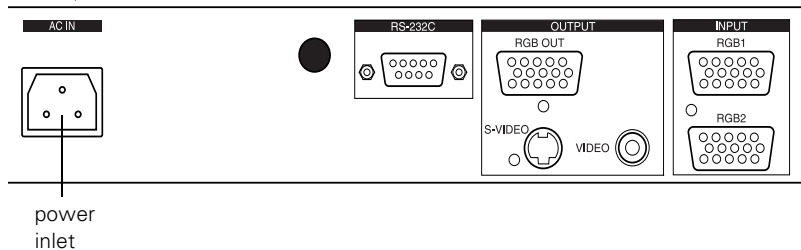
Make sure your document camera and other equipment are set up and connected correctly, as described in Chapter 1. Always turn on your projector or monitor first. Then turn on your document camera, as described below, followed by any other equipment you've connected to it.

You can turn on your computer and video equipment in any order. If you have both a computer and video source connected, you may have to switch to the desired source to see its image as described on page 18.

### Turning On the Document Camera

Follow these steps to plug in and turn on the document camera:

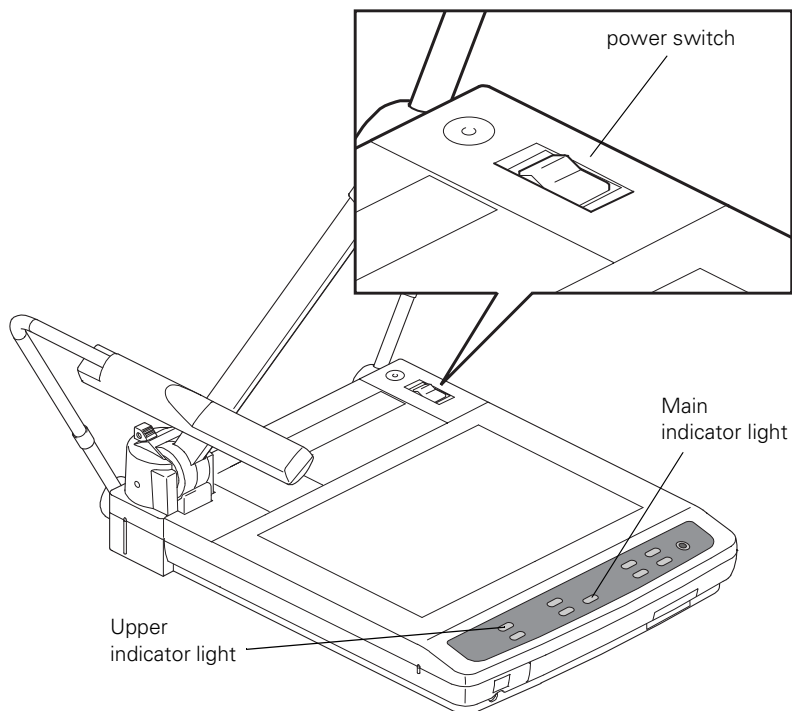
1. Connect one end of the power cord to the document camera's power inlet.



2. Connect the other end to a grounded electrical outlet.
3. Turn on the projector or monitor.

4. Turn on the document camera.

After a few moments, the **Main** and **Upper** indicator lights on the control panel and the upper lamps turn on.



5. Place your presentation material on the stage. You should see an image on screen.

Once you see your image, turn to page 19 for instructions on making adjustments.

If your image doesn't appear, see the next section for help.

When you're done with your presentation, turn off the document camera as described on page 23.

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**note**

*If you turn off the document camera, always wait a few seconds before turning it back on.*

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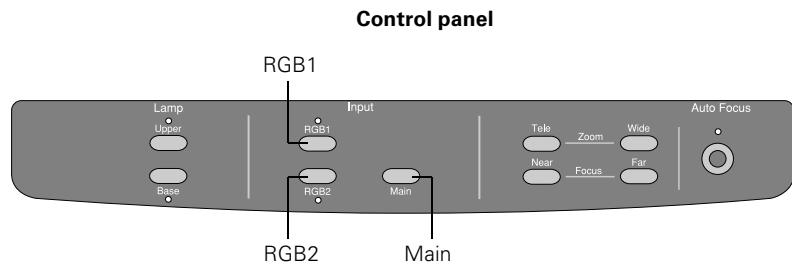
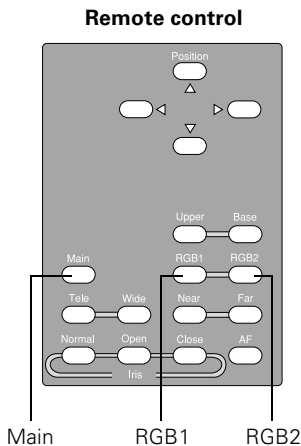
## What To Do If You See a Blank Screen

If an image doesn't appear, try the following:

- Make sure the cables are connected correctly, as described on page 11 for a projector or monitor or page 14 for a computer.
- Make sure everything is turned on.
- Make sure the **Main** and **Upper** lights on the control panel and the upper lamps are on.
- If you are using a video source, such as a laptop or desktop computer, you may need to switch video sources. See the next section for instructions.
- If an image still doesn't appear, refer to Chapter 4 for more help.

## Switching Between Picture Sources

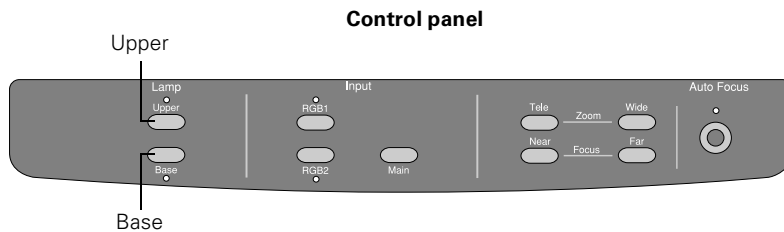
If you have external video sources connected to the document camera, such as a laptop or desktop computer, you can switch between them and the camera. Press the **RGB1** or **RGB2** button on the control panel or remote control to switch to the desired video source. Press the **Main** button to switch back to the camera.



## Adjusting the Lighting

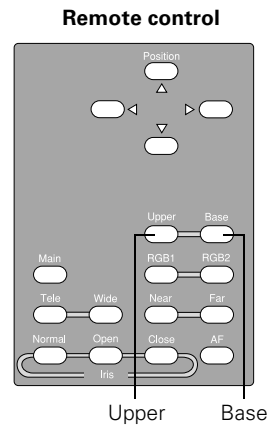
If you are presenting printed material or 3-D objects, the two upper lamps will provide ample light. If the ambient lighting in the room is sufficient, however, you may obtain a better image with the upper lamps off. Press the **Upper** button on the control panel or remote control to turn off the lamps. Press it again to turn the lamps back on.

If you are presenting transparent material, such as an overhead transparency, x-ray, slide, blueprint, or negative, you need to use the base lamp. Press the **Base** button on the control panel or remote control to turn on the base lamp. The upper lamps will turn off automatically.



### note

*You can't have the upper and base lamps turned on simultaneously.*



## Adjusting the Image

Once you see your image, you may need to make certain adjustments:

- To zoom or focus your image, see the next section.
- If the image is too high or too low, you can reposition it. If the image is too large or too small, you can resize it. See page 21.
- If the image is too light or dark, see page 22.

### Zooming and Focusing Your Image

Use the **Tele** button on the control panel or remote control to enlarge the image, and use the **Wide** button to reduce it. The document camera will automatically focus the image.

If you change items on the stage, press the **Auto Focus** button to focus the image. The indicator light flashes until the image is focused.

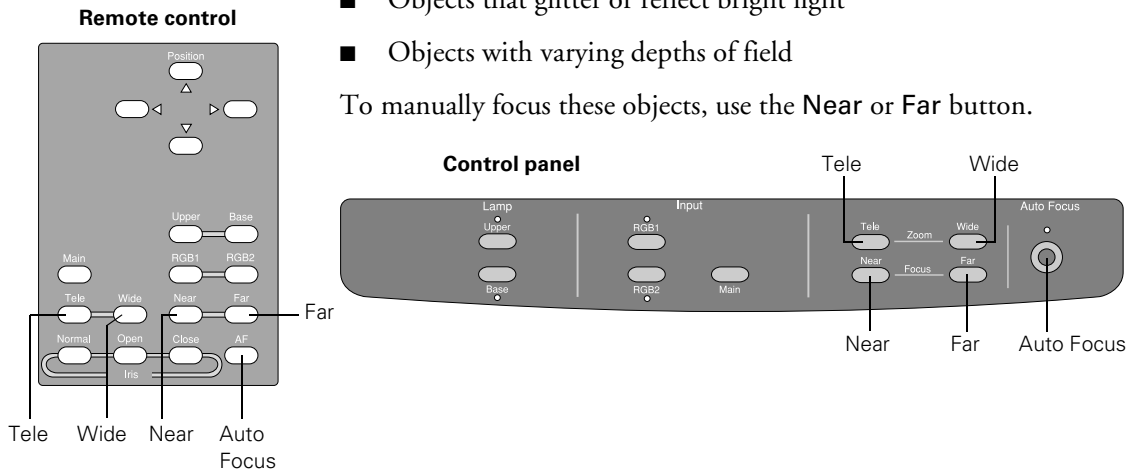
The following objects may not focus well using the auto focus feature:

- Objects with little contrast
- Objects with a bright background or excessive contrast
- Objects with fine repeated patterns or stripes
- Objects that glitter or reflect bright light
- Objects with varying depths of field

To manually focus these objects, use the **Near** or **Far** button.

#### **note**

*The auto focus function works up to a height of approximately 3.9 in. (10 cm) above the stage surface.*



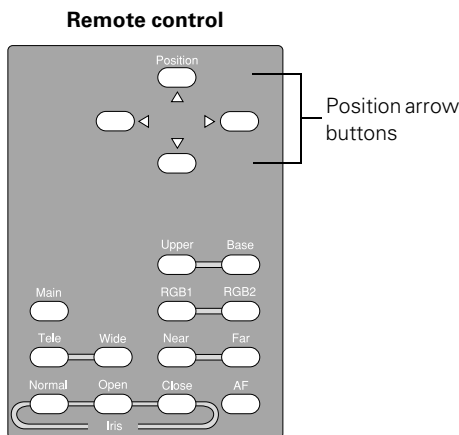
## Adjusting the Image Position and Size

If you are displaying a computer image using the Video or S-Video output port, you can adjust its position and size.

To adjust the image position, use the **Position** arrow buttons on the remote control.

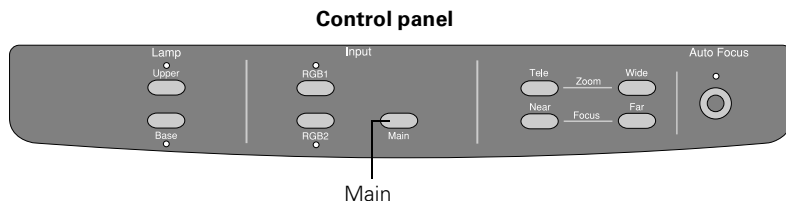
To adjust the image size, press and hold the **Main** button on the control panel.

Then use the right and/or down **Position** arrow buttons on the remote control to enlarge the image. Use the up and/or left **Position** arrow buttons to reduce the image.



### **note**

*You can't adjust the position or size of an image captured with the overhead camera or an image output through the RGB video output port.*

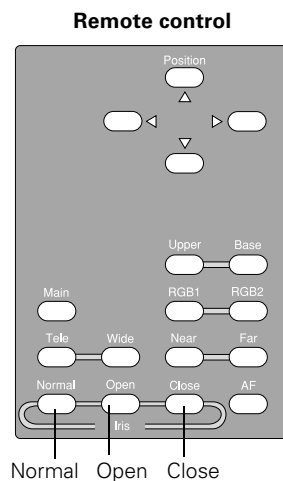


The document camera will remember the position and size. If the signal frequency of the RGB1 or RGB2 port changes, however, you may need to readjust the position.

## Adjusting the Brightness

The document camera is initially set to auto iris. When using the camera, you can manually adjust the iris to control the amount of light that reaches the lens.

If the screen looks dark, press the **Open** button to open the iris so that more light reaches the lens. If the screen looks too light, press the **Close** button. To return to the default setting of auto iris, press the **Normal** button.

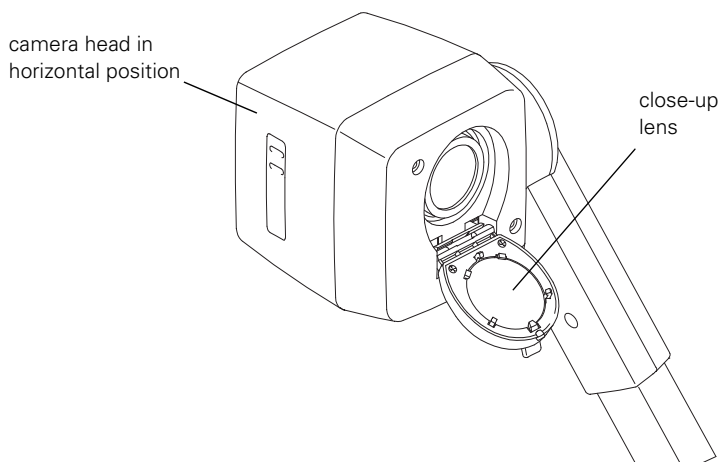


## Using the Camera Head as a Conventional Video Camera

### **note**

*The camera shoots at 15 frames per second.*

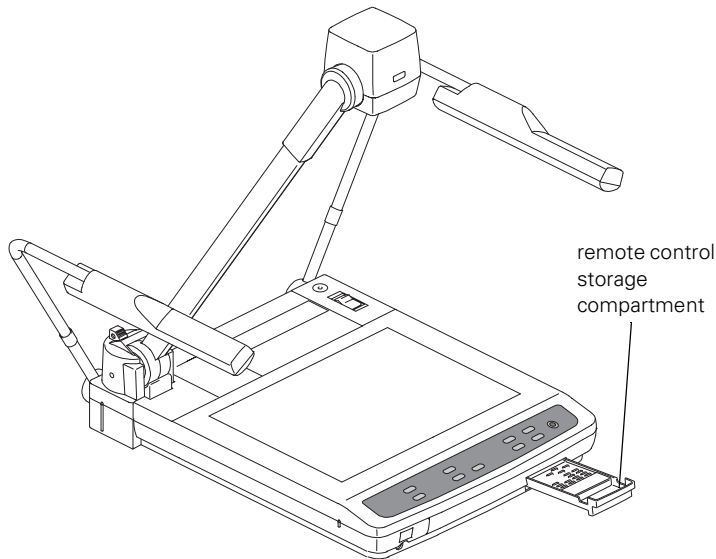
By adjusting the camera head to a horizontal position, you can use the document camera like a conventional video camera. To view walls or distant objects, flip down the close-up lens. The document camera can resolve images from 3.6 feet (1.1 m) to  $\infty$  (infinity).



## *Turning Off and Storing the Document Camera*

When you've finished using the document camera, follow these steps to turn off and store it. If you're using a monitor or projector, shut it down last.

1. Turn off the document camera.
2. Unplug the power cord and disconnect any attached video cables.
3. If the close-up lens is flipped down, close it.
4. Place the remote control inside the remote control storage compartment and close the tray.



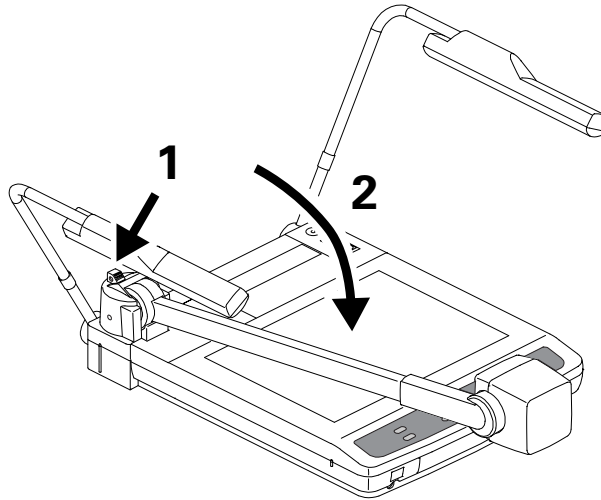
---

**caution**

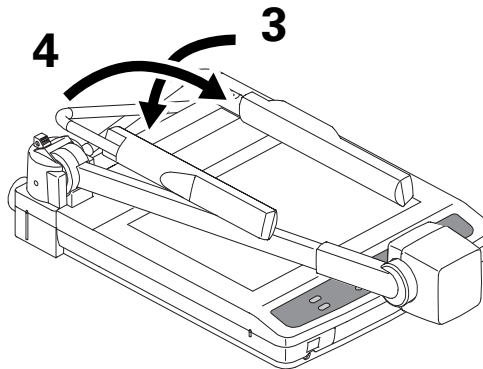
*Be careful not to let the camera arm drop, or you may damage it.*

---

5. Hold the camera arm and press the camera arm release button (1). Then fold down the camera arm (2).



6. Fold down the first lighting unit arm (3) and then the second (4). Store the camera as shown.



# 3

## *Maintaining and Transporting the Document Camera*

---

### **warning**

*Before you clean any part of the document camera, turn it off and unplug the power cord. Never open any cover on the document camera. Dangerous electrical voltages in the document camera can injure you severely. Don't try to service this product yourself. Refer all servicing to qualified service personnel.*

---

Your document camera needs little maintenance. All you need to do on a regular basis is keep the lenses and stage clean. Any dirt or smears on the lenses or stage may show up on your presented image.

You should not replace the lamps or any other parts. If any part needs replacing, contact your dealer or a qualified servicer.

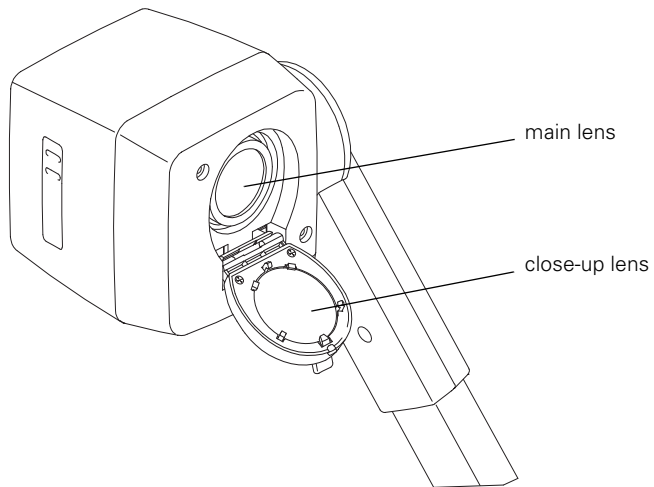
This chapter covers the following:

- Cleaning the lenses
- Cleaning the document camera case
- Transporting the document camera

## *Cleaning the Lenses*

Clean the lenses whenever you notice dirt or dust on the surface.

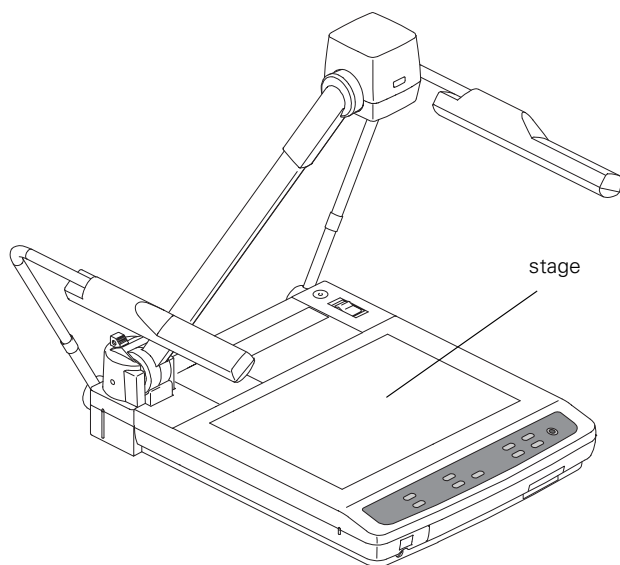
- Use a canister of compressed air to remove dust.
- To remove dirt or smears on the lenses, use lens-cleaning paper. If necessary, moisten a soft cloth with lens cleaner and gently wipe the lens surface.
- Clean both sides of the close-up lens.



## *Cleaning the Document Camera Case*

Before you clean the case, first turn off the document camera and unplug the power cord.

- To remove dirt or dust, wipe the case with a soft, dry, lint-free cloth.
- To remove stubborn dirt or stains, moisten a soft cloth with water and a neutral detergent. Then wipe the case.
- Do not use wax, alcohol, benzene, thinner, or other chemical detergents. These can damage the case.
- Take special care when cleaning the stage, or you may scratch it. Scratches on the stage may appear on your image.



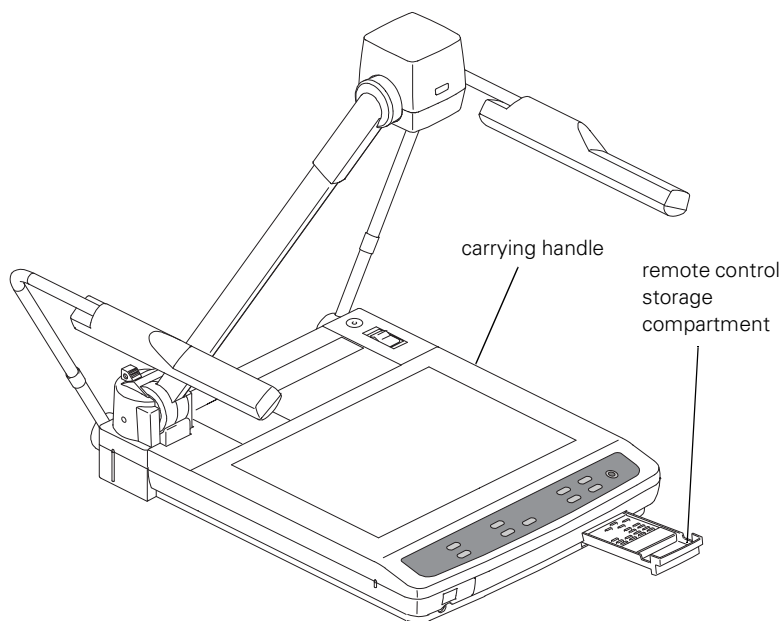
## *Transporting the Document Camera*

### **note**

*EPSON shall not be liable for any damages incurred during transportation.*

The document camera contains many glass and precision parts. If you need to transport it, follow these packing guidelines to prevent damage to the document camera:

- Make sure to turn off and fold the document camera as described on page 23.
- When shipping the document camera for repairs, use the original packaging material if possible. If you do not have the original packaging, use equivalent materials, placing plenty of cushioning around the document camera.
- When transporting the document camera a long distance, pack it in a firm box, using cushioning around the document camera.
- When you are hand-carrying the document camera, be sure to use the carrying handle.
- When transporting the document camera, you may leave the remote control inside the remote control storage compartment.



# 4

## *Solving Problems*

This chapter helps you solve problems with your document camera, and tells you how to contact technical support for problems you can't solve yourself. This chapter explains the following:

- Solving problems with the image
- Solving problems with the remote control
- Contacting technical support

## *Solving Problems with the Image*

### **No image appears on the screen.**

- Check that all cables are properly connected (see Chapter 1) and everything is turned on.
- Make sure the projector or computer is not in sleep mode. Check the projector documentation, or try pressing a key on the computer keyboard.
- The document camera may have been turned on too quickly after it was turned off. Turn the document camera off, wait a few seconds, and then turn it on again.
- The wrong source may be selected. Try pressing the **Main**, **RGB1**, or **RGB2** button.
- The document camera may need to have its NTSC or PAL setting changed. See page 31 for instructions.

### **The image contains static or noise.**

- If you're using cables that are longer than 6 feet (2 m), or an extension cable, the image quality may be reduced.
- Keep your projector, computer, and video cables away from the power cord as much as possible to prevent interference.
- The camera head switches may be set incorrectly. Try adjusting the switches as described on page 13.

### **The image is blurry.**

- There may be dirt on the lenses. Clean the lenses as described on page 26.
- Try pressing the **Auto Focus** button.
- Some objects do not auto focus well (see page 20). Manually focus these objects using the **Near** and **Far** buttons.
- The presentation material may be too close to the lens. Make sure the close-up lens is closed.

- The presentation material may be too far from the lens. Flip down the close-up lens.
- Make sure there is no condensation on the lenses. You may need to wait before using the document camera after moving it from a cold environment to a warm environment.

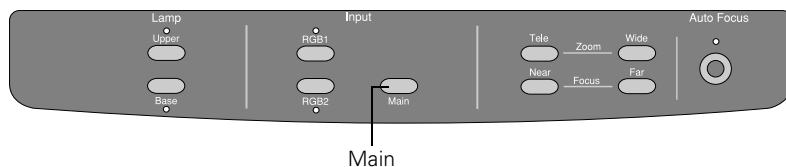
## ***Switching Between NTSC and PAL***

For video output, the document camera is set at the factory to NTSC mode. Follow the steps below to switch to PAL mode.

Before you start, make sure your document camera is plugged in.

1. Make sure the document camera is turned off.
2. Press and hold the **Main** button on the document camera's control panel.

**Control panel**



3. Turn on the document camera.
4. Release the **Main** button.

The document camera will remain in PAL mode, even after turning it off. To switch back to NTSC mode, repeat the same steps.

## *Solving Problems with the Remote Control*

- Make sure you are within 23 feet (7 m) of the document camera, and within range of the document camera's front or back sensor (approximately 30° to the left or right and 15° above or below).
- The remote control batteries may not be installed correctly or may be low on power. Try changing the batteries as described on page 7.
- Dim the room lights and turn off any fluorescents. Make sure the document camera is not in direct sunlight. Strong lighting, especially fluorescent lights, may affect the document camera's infrared receivers.
- Turn off any nearby equipment that emits infrared energy, such as a radiant room heater.

## *Where to Get Help*

EPSON provides technical assistance through electronic support services 24 hours a day, as listed in the following table.

### *Electronic support services*

Service	Access
World Wide Web	From the internet, you can reach EPSON's product support at <b><a href="http://support.epson.com">http://support.epson.com</a></b> . After selecting your product, you can access troubleshooting information, download product documentation, and receive technical advice through e-mail.
Presenters Online	Access tips, templates, and training for developing successful presentations at <b><a href="http://www.presentersonline.com">http://www.presentersonline.com</a></b> .

## ***Telephone Support Services***

To use the EPSON PrivateLine Support service, call (800) 637-7661 and enter the PIN on the EPSON PrivateLine Support card included with your document camera. This is the fastest way of speaking to a live representative, and it's free. This service is available 6 AM to 6 PM, Pacific Time, Monday through Friday, for the duration of your warranty period.

You may also speak with an EPSON document camera support specialist by dialing one of these numbers:

- U.S.: (562) 276-4394, 6 AM to 6 PM, Pacific Time, Monday through Friday
- Canada: (905) 709-3839, 6 AM to 6 PM, Pacific Time, Monday through Friday

Toll or long distance charges may apply.

Before you call, please have the following information ready:

- Product name (EPSON ELPDC02 High Resolution Document Imager)
- Product serial number (located on the rear panel of the document camera)
- Computer configuration, if applicable
- Description of the problem



# 5

## *Technical Specifications*

### **General**

CCD	1/3 inch (848,676 progressive square pixels)
Resolution	1024 × 768 pixels
Lens	F=2.8, f=5.8 to 58 mm
Frame speed	15 frames per second
Shooting area	13.8 × 10.2 in. (350 × 260 mm) max. 1.5 × 1.1 in. (38 × 28 mm) min.
Limit of focus adjustment	3.9 in. (100 mm) from the stage surface using the close-up lens 3.6 feet (1.1 m) to ∞ with the camera positioned horizontally and without using the close-up lens
Zoom	10× optical with double speed function
Focus	Automatic/manual
Iris	Automatic/manual
White balance	Automatic
Gamma selection	ON ( $\gamma=0.6$ ), OFF ( $\gamma=1.0$ )
Frequency selection	50 or 60 Hz
Video output	NTSC or PAL

### **Lighting**

Upper lamps	3 wavelength fluorescent, 6 W × 2
Base lamps	3 wavelength fluorescent, 6 W × 2

## ***Remote Control***

Range	23 feet (7 m)
Batteries	Alkaline AAA (2)

## ***Dimensions***

Weight	22.1 lb (10 kg)
Folded (h × w × d)	6.6 × 15.7 × 26.0 in. (168 × 400 × 660 mm)
Unfolded (h × w × d)	24.6 × 27.6 × 21.3 in. (625 × 700 × 542 mm)

## ***Electrical***

Rated frequency	50/60 Hz
Power supply	100 to 120 VAC 200 to 240 VAC
Power consumption	100 to 120 VAC: 43 W 200 to 240 VAC: 0.3 A

## ***Environmental***

Temperature	Operating: 41 to 104 °F (5 to 40 °C) Storage: 14 to 140 °F (–10 to 60 °C)
Humidity	Operating: 30 to 85% RH, non-condensing  Storage: 20 to 90% RH, non-condensing

## ***Safety***

United States	FCC 47CFR Part 15B UL1492
Canada	ICES-003 CSA C22.2 No.1-94 (cUL)
CE Marking	Directive 89/336/EEC EN 55022, EN 55024 Directive 73/23/EEC EN 60950

## ***Compatible Video Formats***

The document camera supports NTSC and PAL video standards, as well as the monitor display formats listed below.

<b>Mode</b>	<b>Refresh Rate (Hz)</b>	<b>Resolution</b>
VGA1	85.08	640 × 350
VGA2	85.08	640 × 400
VGA3	85.039	720 × 400
VGA—60	59.94	640 × 480
VGA—72	72.809	640 × 480
VGA—75	75	640 × 480
VGA—85	85.008	640 × 480
SVGA—56	56.25	800 × 600
SVGA—60	60.317	800 × 600
SVGA—72	72.188	800 × 600
SVGA—75	75	800 × 600
SVGA—85	85.061	800 × 600
XGA—60	60.004	1024 × 768
XGA—70	70.069	1024 × 768
XGA—75	75.029	1024 × 768
XGA—85	84.997	1024 × 768

Mode	Refresh Rate (Hz)	Resolution
SXGA1	75	1152 × 864
SXGA2	60	1280 × 960
SXGA3	85.002	1280 × 960
SXGA—60	60.02	1280 × 1024
SXGA—75	75.025	1280 × 1024
SXGA—85	85.024	1280 × 1024
UXGA—60	60	1600 × 1200
UXGA—65	65	1600 × 1200
UXGA—70	70	1600 × 1200
UXGA—75	75	1600 × 1200
UXGA—85	85	1600 × 1200
MAC 13	66.667	640 × 480
MAC 16	74.55	832 × 624
MAC 19	74.927	1024 × 768
MAC 21	75.062	1152 × 870
PC98	56.42	640 × 400

# 6

## *Notices*

This chapter includes safety instructions and other important information about your EPSON document camera.

### *Important Safety Instructions*

Follow these safety instructions when setting up and using the document camera:

- Read Instructions – All the safety and operating instructions should be read before the appliance is operated.
- Retain Instructions – The safety and operating instructions should be retained for future reference.
- Heed Warnings – All warnings on the product appliance and in the operating instructions should be adhered to.
- Follow Instructions – All operating and use instructions should be followed.
- Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Attachments – Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- Water and Moisture – Do not use this product near water—for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
- Accessories – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

- Ventilation – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- Place the document camera near a wall outlet where the plug can be easily unplugged.
- *Placez l'appareil près d'une prise de courant où la fiche peut être débranchée facilement.*
- Power Sources – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home consult your appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- Grounding or Polarization – This product may be equipped with either a polarized 2-wire AC line plug (a plug having one blade wider than the other) or a 3-wire grounding type plug (a plug having a third grounding pin). The 2-wire polarized plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. The 3-wire grounding type plug will fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.
- Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- Lightning – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

- A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
- Object and Liquid Entry – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- Servicing – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- Damage Requiring Service – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - When the power-supply cord or plug is damaged.
  - If liquid has been spilled, or objects have fallen into the product.
  - If the product has been exposed to rain or water.
  - If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
  - If the product has been dropped or damaged in any way.
  - When the product exhibits a distinct change in performance—this indicates a need for service.
- Replacement Parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
- Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- Heat – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

**WARNING:**

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.**

**THIS IS A CLASS B PRODUCT. IN A DOMESTIC ENVIRONMENT THIS PRODUCT MAY CAUSE RADIO INTERFERENCE IN WHICH CASE THE USER MAY BE REQUIRED TO TAKE ADEQUATE MEASURES.**

## *Remote Control Information*

You can operate the document camera by remote control via a line-of-sight infrared (IR) receiver at the front and rear of the document camera. The document camera may not respond to remote control commands under the following conditions:

- There is an object between the remote control IR emitter and the IR receiver on the document camera.
- Ambient light is too bright.
- Certain types of fluorescent lighting are used.
- A strong light source shines into the IR receiver.
- Other equipment that emits infrared energy, such as a radiant room heater, is in the room.

These conditions commonly cause problems for most infrared-controlled equipment. Try the following:

- The remote control batteries may be low on power; replace them.
- Dim the ambient lighting and/or turn off any fluorescent lights.
- Close any window coverings and/or move the document camera out of direct sunlight.
- Turn off other equipment that emits infrared energy.

If the remote control still does not work properly, you can always use the buttons located on the document camera control panel, even in an environment containing one of the conditions listed above.

## *Declaration of Conformity*

According to 47CFR, Part 2 and 15

Class B Personal Computers and Peripherals; and/or CPU Boards and Power Supplies used with Class B Personal Computers

We: EPSON AMERICA, INC.  
Located at: 3840 Kilroy Airport Way  
MS: 6-43  
Long Beach, CA 90806-2469

Telephone: (562) 290-5254

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR §2.909. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Trade Name: EPSON

Type of Product: Document Camera

Model: ELPDC02

# *FCC Compliance Statement*

## **For United States Users**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **WARNING**

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

## **For Canadian Users**

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

*Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.*

# Warranty

## **Epson America, Inc. Limited Warranty**

*What is Covered:* Epson America, Inc. ("Epson") warrants to the first end user customer of the EPSON product enclosed with this limited warranty statement that the product, if purchased and used in the United States or Canada, conforms to the manufacturer's specifications and will be free from defects in workmanship and materials for a period of one (1) year from the date of original purchase (except that the warranty period is 90 days for lamps). For warranty service, you must provide proof of the date of original purchase.

*What Epson Will Do To Correct Problems:* Should your EPSON product prove defective during the warranty period, please bring the product securely packaged in its original container or an equivalent, along with proof of the date of original purchase, to your EPSON Dealer or EPSON Customer Care Center. Epson will, at its option, repair or replace on an exchange basis the defective unit, without charge for parts or labor. When warranty service involves the exchange of the product or of a part, the item replaced becomes EPSON property. The exchanged product or part may be new or previously repaired to the EPSON standard of quality. Exchange or replacement products or parts assume the remaining warranty period of the product covered by this limited warranty. However, each replacement lamp carries the limited 90-day warranty stated above.

*What This Warranty Does Not Cover:* This warranty covers only normal use in the United States and Canada. For lamps, 24-hour-per-day use causes unusual strain and is not considered normal use. This warranty is not transferable and will not apply to products purchased from an end user. This warranty does not cover consumables (e.g., fuses), other than lamps. EPSON is not responsible for warranty service should the EPSON label or logo or the rating label or serial number be removed or should the product fail to be properly maintained or fail to function properly as a result of misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as fire, flood, and lightning, improper electrical current, software problems, interaction with non-EPSON products, or service other than by an EPSON Authorized Servicer. Postage, insurance, or shipping costs incurred in presenting your EPSON product for carry-in warranty service are your responsibility. If a claimed defect cannot be identified or reproduced in service, you will be held responsible for costs incurred.

THE WARRANTY AND REMEDY PROVIDED ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS

FOR A PARTICULAR PURPOSE. SOME LAWS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES. IF THESE LAWS APPLY, THEN ALL EXPRESS AND IMPLIED WARRANTIES ARE LIMITED TO THE WARRANTY PERIOD IDENTIFIED ABOVE. UNLESS STATED HEREIN, ANY STATEMENTS OR REPRESENTATIONS MADE BY ANY OTHER PERSON OR FIRM ARE VOID. EXCEPT AS PROVIDED IN THIS WRITTEN WARRANTY, NEITHER EPSON AMERICA, INC. NOR ITS AFFILIATES SHALL BE LIABLE FOR ANY LOSS, INCONVENIENCE, OR DAMAGE, INCLUDING DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OR INABILITY TO USE THE EPSON PRODUCT, WHETHER RESULTING FROM BREACH OF WARRANTY OR ANY OTHER LEGAL THEORY. IF THE REMEDY ABOVE FAILS, EPSON'S ENTIRE LIABILITY SHALL BE LIMITED TO A REFUND OF THE PRICE PAID FOR THE EPSON PRODUCT COVERED BY THIS LIMITED WARRANTY.

In Canada, warranties include both warranties and conditions.

Some jurisdictions do not allow limitations on how long an implied warranty lasts and some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from jurisdiction to jurisdiction.

To locate an Authorized EPSON Servicer nearest you, call the EPSON Connection at (562) 276-4394 in the U.S. and (905) 709-3839 in Canada or write to: Epson America, Inc., P. O. Box 93012, MS: 6-33, Long Beach, CA 90809-3012.

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